



A.D. 1865, 28th JUNE. N° 1727.

S P E C I F I C A T I O N

OF

WILLIAM BOTHAM.

REGULATOR FOR THE TUBES OF FEEDING
BOTTLES.

LONDON:

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1865.



A.D. 1865, 28th JUNE. N° 1727.

Regulator for the Tubes of Feeding Bottles.

LETTERS PATENT to William Botham, of Sheffield, in the County of York, Pharmaceutical Chemist, for the Invention of “A NEW AND IMPROVED FOOD OR FLUID REGULATOR FOR FEEDING BOTTLE AND OTHER TUBES.”

Sealed the 22nd December 1865, and dated the 28th June 1865.

PROVISIONAL SPECIFICATION left by the said William Botham at the Office of the Commissioners of Patents, with his Petition, on the 28th June 1865.

I, WILLIAM BOTHAM, of Sheffield, in the County of York, Pharmaceutical
5 Chemist, do hereby declare the nature of the said Invention for “A NEW
AND IMPROVED FOOD OR FLUID REGULATOR FOR FEEDING BOTTLE AND OTHER
TUBES,” to be as follows:—

This Invention relates to a new and improved regulator for the purpose of
controlling or regulating the flow of liquid food from the tubes of feeding
10 bottles, or of fluid from other tubes, wherein suction or exhaustion of air is the
power employed for the withdrawal of such liquid food or fluid. The regulator
consists of a small dome or other shaped hollow piece of india-rubber or other
suitable elastic material or compound, which is to be fitted on the end of a glass,
metal, or other tube, and afterwards inserted into the india-rubber tube belong-
15 ing to the feeding bottle. It can be made of various sizes and strengths. The
domed or other shaped surface is perforated with a series of leech bite valves
which open and allow the food to pass through as soon as the child or person
begins to suck, it can have any number and any size of leech bites in it, or

Botham's Improved Food or Fluid Regulator.

the valves may be cut in a cross section, or in a series of arcs or three-quarter circles, or merely with a central hole. When the food or liquid has passed through it cannot return again into the bottle. Another example consists of a hollow dome or other shaped piece, having the cylindrical flange turned upwards to the level of the surface of the dome, and enlarged so as to leave 5 a space between the dome and flange; this is intended to fit by its rim or flange on to the end and outside of a glass or metal or other tube, which is placed in the feeding bottle; it is made of india-rubber or other elastic material, and of various sizes and degrees of strength. The valves may be formed in the same way as in the first example, both the glass or other rigid tubes, and the 10 flexible tube may be of any desirable length and diameter, and they may be straight or curved at convenience. By use of this regulator the supply of food or liquid is rendered more uniform and regular than it can be by the action of exhaustion or suction by means of a simple tube or tubes, wherein the supply is sudden and returnable into the bottle when the air ceases to be 15 withdrawn for a moment; it also acts as a strainer and prevents the tube from being choked up by any solid substance which might be in the food.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said William Botham, in the Great Seal Patent Office on the 28th December 1865.

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TO ALL TO WHOM THESE PRESENTS SHALL COME, I, WILLIAM BOTHAM, of Sheffield, in the County of York, Pharmaceutical Chemist, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twenty-eighth day of June, in the year of our 25 Lord One thousand eight hundred and sixty-five, in the twenty-ninth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said William Botham, Her special licence that I, the said William Botham, my executors, administrators, and assigns, or such others as I, the said William Botham, my executors, administrators, and assigns, should at 30 any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "A NEW AND IMPROVED FOOD OR FLUID REGULATOR FOR FEEDING BOTTLE AND 35 OTHER TUBES," upon the condition (amongst others) that I, the said William

Botham's Improved Food or Fluid Regulator.

Botham, my executors, or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said William Botham do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This Invention relates to a new and improved regulator for the purpose of controlling or regulating the flow of liquid food from the tubes of feeding bottles, or from fluids from other tubes wherein suction or exhaustion of air is the power employed for the withdrawal of such liquid food or fluid. The regulator consists of a small dome or other shaped hollow piece of india-rubber or other suitable elastic material or compound, which is to be fitted on the end of a glass, metal, or other tube, and afterwards inserted into the india-rubber tube belonging to the feeding bottle. It can be made of various sizes and strengths. The domed or other shaped surface is perforated with a series of leech bite valves which open and allow the food to pass through as soon as the child or person begins to suck; it can have any number and any size of leech bites in it, or the valves may be cut in a cross section, or in a series of arcs or three-quarter circles, or merely with a central hole, or any number of holes. When the food or liquid has passed through it cannot return again into the bottle. Another example consists of a hollow dome or other shaped piece having the cylindrical flange turned upwards and enlarged so as to leave a space between the dome and flange; this is intended to fit by its rim or flange on to the end and outside of a glass or metal, india-rubber, or other tube, which is placed in the feeding bottle, it is made of india-rubber or other elastic material, and of various sizes and degrees of strength. The valves may be formed in the same way as in the first example, both the glass or other rigid tubes, and the flexible tube, may be of any desirable length and diameter, and they may be straight or curved at convenience. By use of this regulator the supply of food or liquid is rendered more uniform and regular than it can be by the action of exhaustion or suction by means of a simple tube or tubes wherein the supply is sudden and returnable into the bottle when the air ceases to be withdrawn for a moment. It also acts as a strainer, and prevents the tube from being choked up by any solid substance which might be in the food.

Botham's Improved Food or Fluid Regulator.

In the annexed Drawings Figs. 1, 2, and 3 are respectively a top plan, a section, and an under plan view of the regulator first described, and Fig. 4 represents in section its application to the tube of a feeding bottle. *a, a*, are the sides of the dome or regulator, and *b* the top; *c* represents the india-rubber tube, which may be of any length, and either straight or curved. Figs. 4*, 5, 5, and 6 shew similar views of the second example of regulator. *a* is the rim which fits the outside of the tube; *b*, the top which fits inside the tube; *c*, the leech bite or other cut valves; *d*, the bottom end which connects *a* and *b* together; *e*, Fig. 7, the glass, metal, or other tube, with the regulator and india-rubber tube attached thereto. 10

Having now described the nature of my said Invention, and the manner in which the same is to be performed, I would remark in conclusion that I do not limit myself to the precise details and configuration of parts herein expressed and shewn, as the same may obviously be slightly varied or modified without in any way departing from the principles on which my Invention is 15 based, but what I claim and desire to be secured to me by the herein in part recited Letters Patent is, the new and improved regulator for feeding bottle and other tubes, substantially as herein specified and shewn.

In witness whereof, I, the said William Botham, have hereunto set my hand and seal, this Twenty-second day of December, in the year of 20 our Lord One thousand eight hundred and sixty-five.

WILLIAM BOTHAM. (L.S.)

Witness,

JOHN CLARK,

7, St. James Row,
Sheffield.

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Printers to the Queen's most Excellent Majesty. 1865.

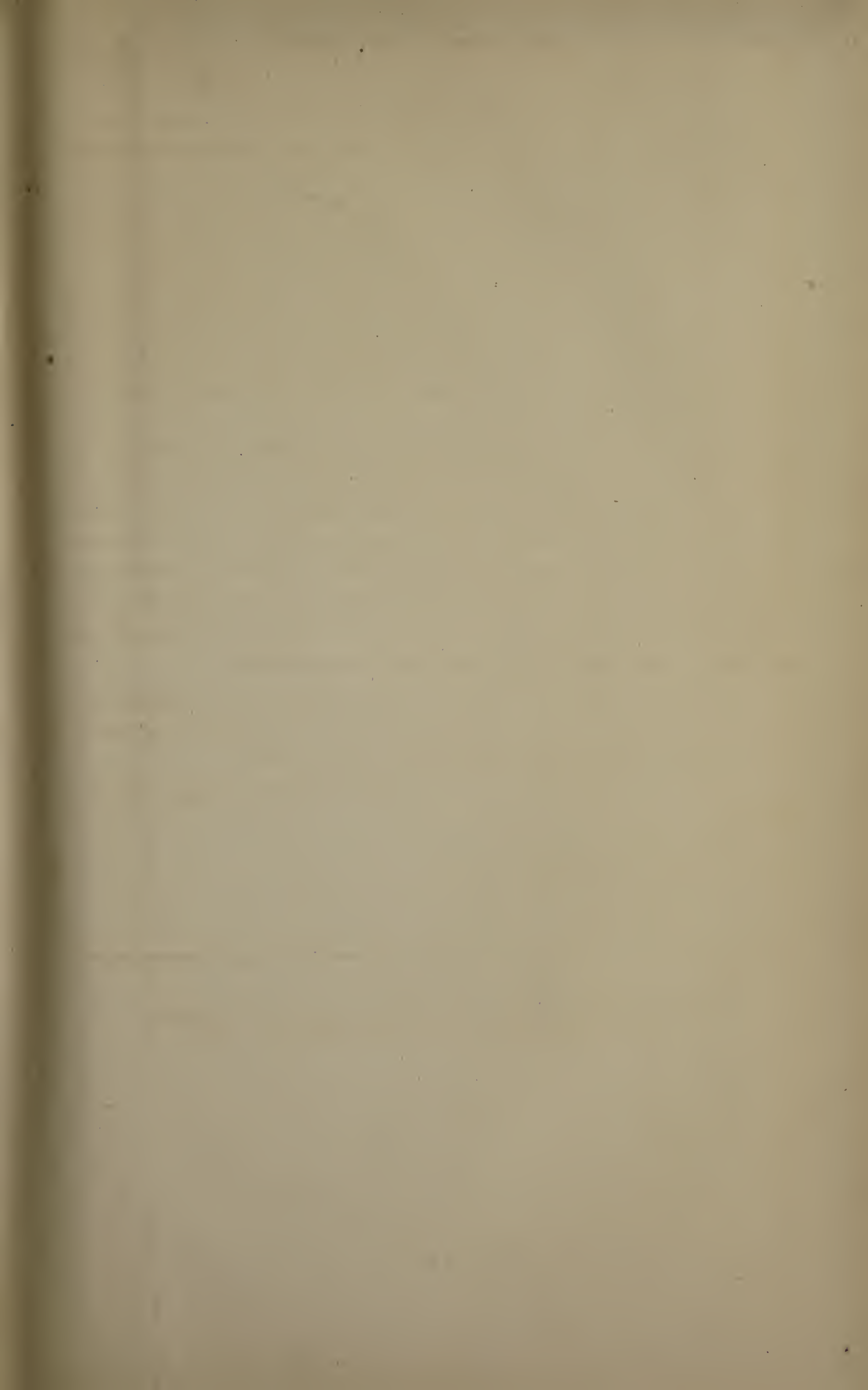


FIG. 1.



FIG. 2.

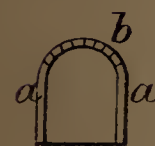


FIG. 3.



FIG. 4.

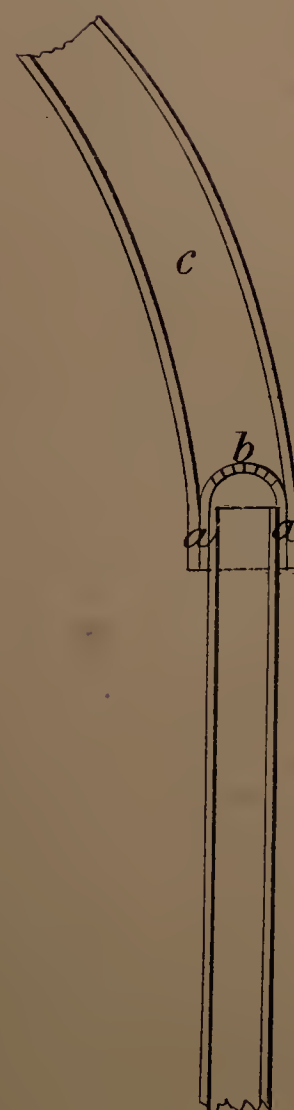


FIG. 4*

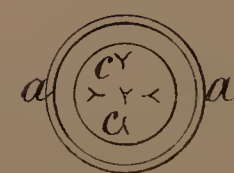


FIG. 5.

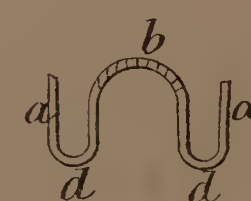


FIG. 6.



FIG. 7.



The filed drawing is not colored.

Drawn on Stone by Malby & Sons.

